

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P835968

Luminaire Tested: **ARCH3-120-730-U-T3-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835968
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-120-730-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 965mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12630 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 122.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



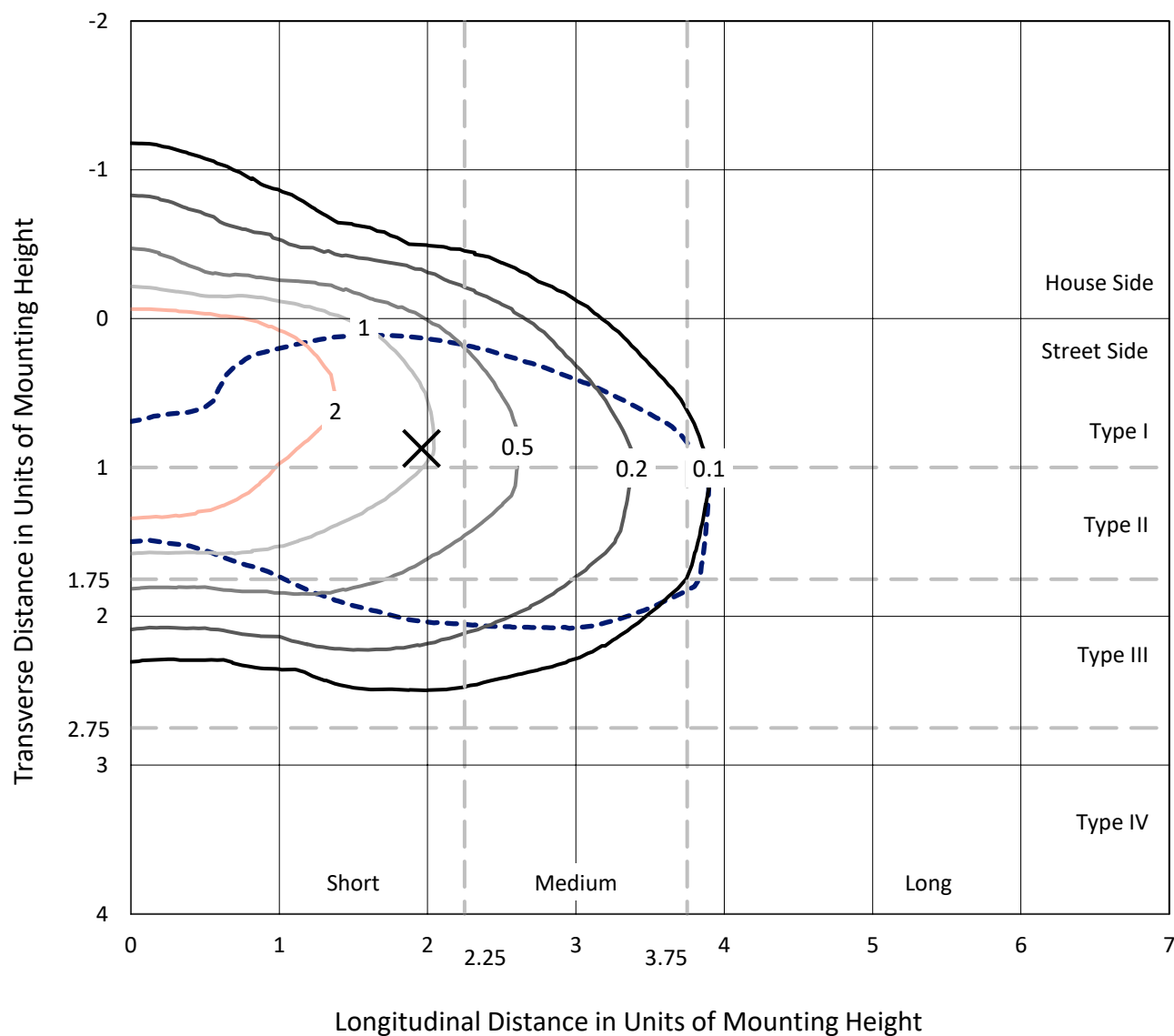
REPORT NUMBER: P835968

CATALOG NUMBER: ARCH3-120-730-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

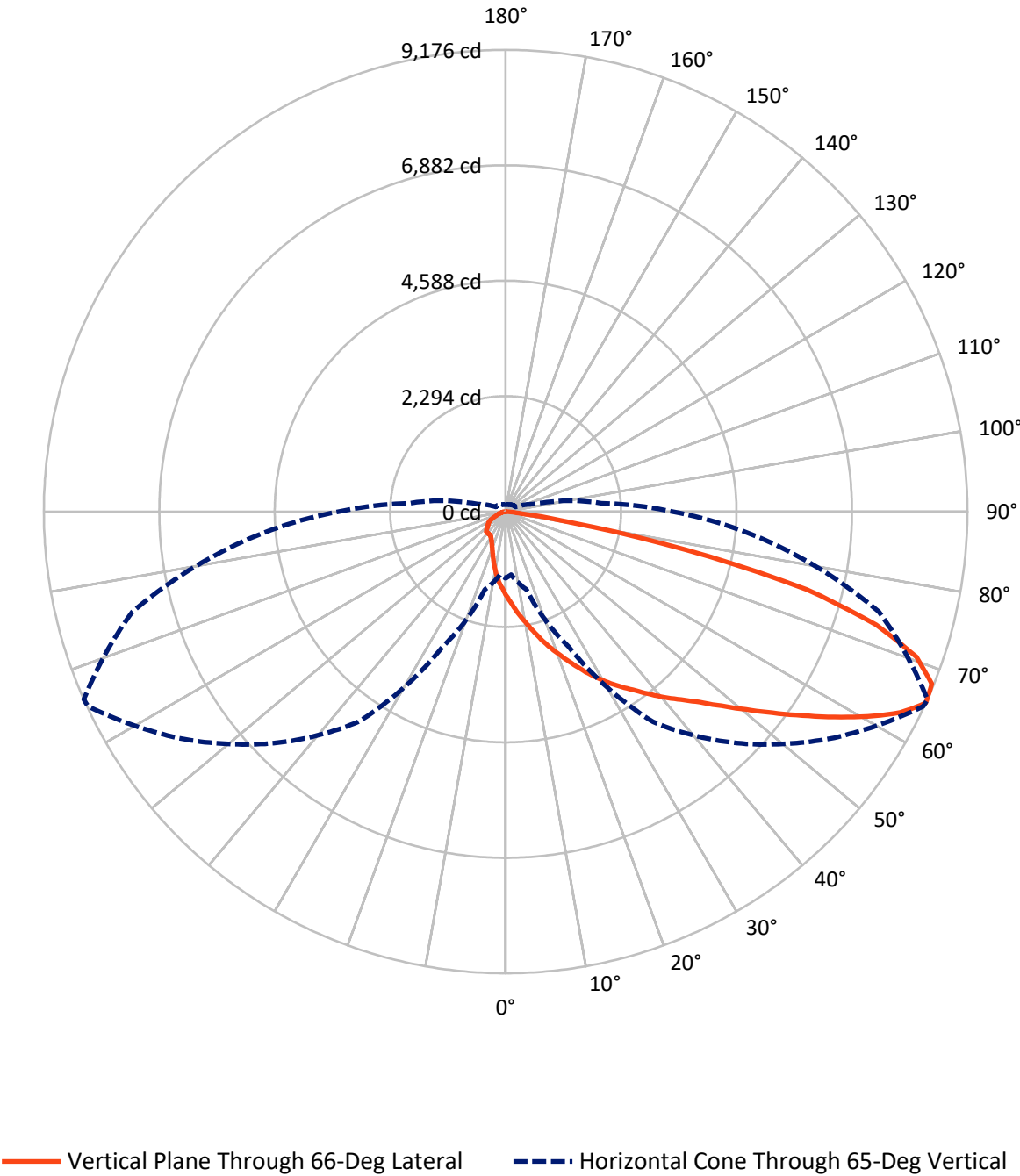


Based on 25 foot mounting height. Maximum calculated value = 4.8 fc

Type III - Short - N/A

REPORT NUMBER: P835968
CATALOG NUMBER: ARCH3-120-730-U-T3-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P835968

CATALOG NUMBER: ARCH3-120-730-U-T3-HSS

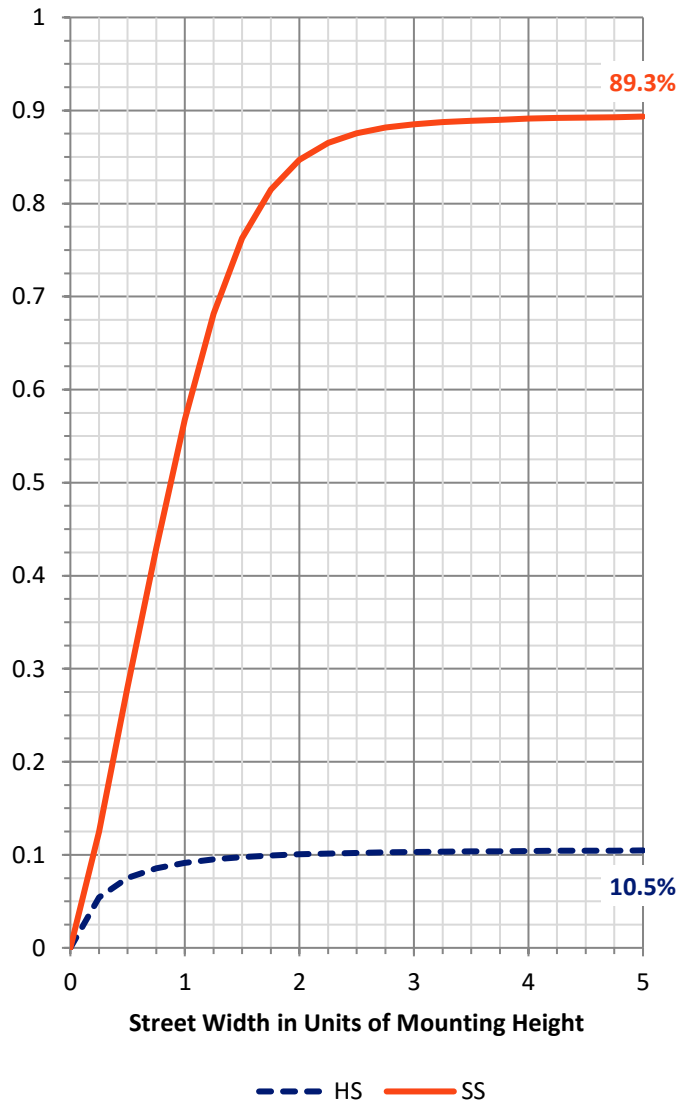
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1335.9	0.0	1335.9
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	11294.1	0.0	11294.1
	% Fixture	89.4	0.0	89.4
Total	Lumens	12630.0	0.0	12630.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.0	1.3
10°-20°	537.7	4.3
20°-30°	972.9	7.7
30°-40°	1521.3	12.0
40°-50°	2307.9	18.3
50°-60°	2932.2	23.2
60°-70°	2739.8	21.7
70°-80°	1361.7	10.8
80°-90°	91.5	0.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	12630.0	100.0
0°-180°	12630.0	100.0

Coefficient of Utilization



REPORT NUMBER: P835968

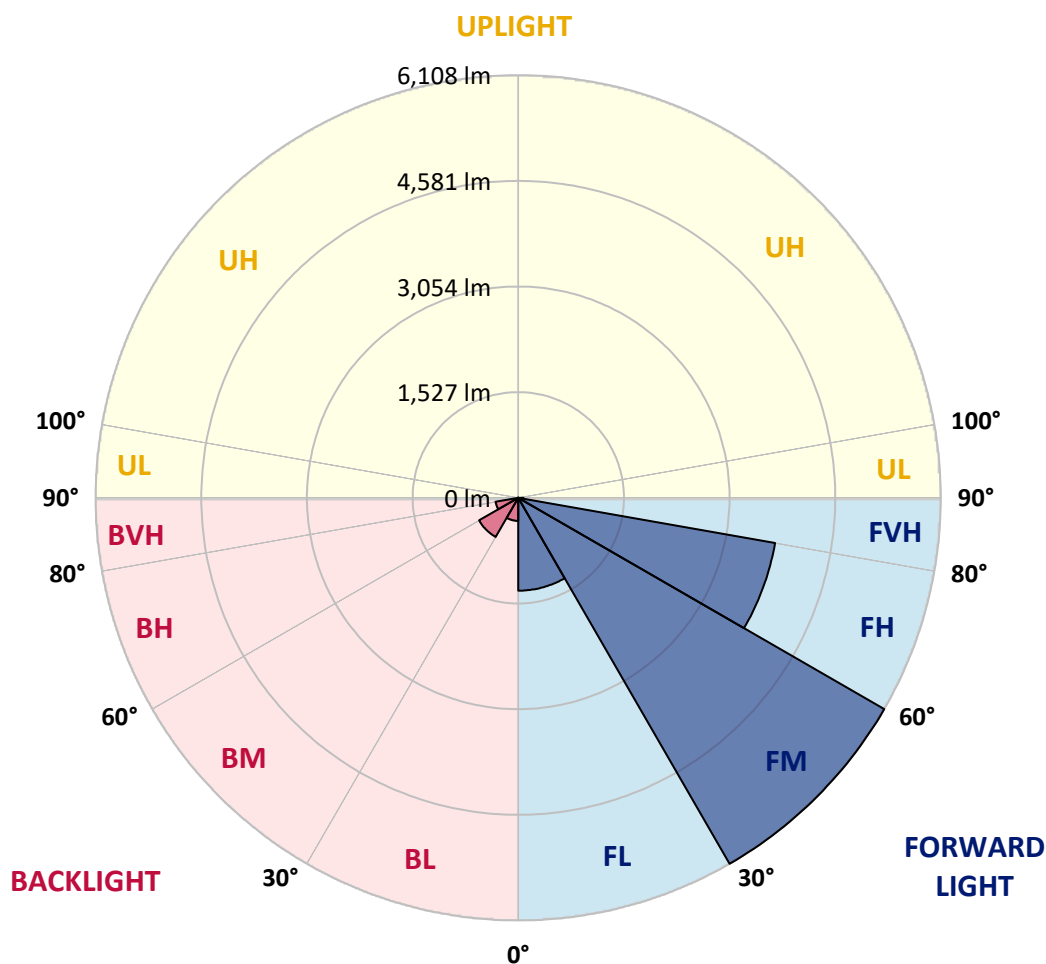
CATALOG NUMBER: ARCH3-120-730-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1341.9	10.6			
FM	(30°-60°)	6108.0	48.4			
FH	(60°-80°)	3768.8	29.8			G2/5000
FVH	(80°-90°)	75.3	0.6			G1/100
BL	(0°-30°)	333.6	2.6	B1/500		
BM	(30°-60°)	653.4	5.2	B1/1000		
BH	(60°-80°)	332.7	2.6	B1/500		G1/500
BVH	(80°-90°)	16.2	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short



REPORT NUMBER: P835968

CATALOG NUMBER: ARCH3-120-730-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1671.5	1671.5	1671.5	1671.5	1671.5	1671.5	1671.5	1671.5	1671.5	1671.5	1671.5
2.5°	1952.3	1968.2	1976.1	1978.8	1917.9	1891.4	1864.9	1804.0	1790.7	1756.3	1711.2
5°	2296.7	2317.9	2312.6	2302.0	2227.8	2143.0	2074.2	1960.3	1941.7	1859.6	1758.9
7.5°	2635.7	2654.3	2649.0	2609.3	2527.1	2407.9	2294.0	2127.1	2100.6	1968.2	1806.6
10°	2919.2	2935.1	2932.4	2892.7	2794.7	2649.0	2511.2	2288.7	2256.9	2068.9	1846.3
12.5°	3152.3	3173.5	3170.8	3144.3	3056.9	2898.0	2741.7	2474.2	2434.4	2190.7	1902.0
15°	3335.1	3361.6	3361.6	3351.0	3290.0	3157.6	2980.1	2678.1	2630.4	2331.1	1970.8
17.5°	3446.3	3467.5	3486.1	3504.6	3462.2	3361.6	3200.0	2882.1	2831.8	2468.9	2042.4
20°	3504.6	3525.8	3539.0	3578.8	3586.7	3536.4	3409.2	3083.4	3030.4	2625.1	2124.5
22.5°	3600.0	3618.5	3621.2	3655.6	3671.5	3684.7	3605.3	3282.1	3239.7	2797.3	2217.2
25°	3758.9	3780.1	3772.2	3788.1	3790.7	3806.6	3798.6	3509.9	3467.5	2993.4	2328.5
27.5°	3962.9	3989.4	3984.1	3968.2	3944.3	3931.1	3965.5	3740.4	3700.6	3189.4	2442.4
30°	4182.8	4214.5	4206.6	4174.8	4111.2	4055.6	4103.3	3957.6	3920.5	3390.7	2569.5
32.5°	4405.3	4442.4	4439.7	4386.7	4278.1	4182.8	4254.3	4161.6	4135.1	3607.9	2707.3
35°	4551.0	4598.6	4593.3	4561.6	4421.2	4339.0	4426.5	4370.8	4352.3	3872.8	2905.9
37.5°	4786.7	4837.1	4792.0	4712.5	4551.0	4508.6	4614.5	4606.6	4593.3	4153.6	3115.2
40°	5358.9	5433.1	5313.9	4988.0	4723.1	4686.1	4837.1	4868.8	4855.6	4431.8	3303.3
42.5°	5957.6	6068.8	5883.4	5433.1	5035.7	4900.6	5080.8	5125.8	5109.9	4670.2	3472.8
45°	6320.5	6368.2	6182.7	5833.1	5589.4	5160.2	5340.4	5414.5	5401.3	4956.3	3690.0
47.5°	6617.2	6598.6	6386.7	6150.9	6196.0	5525.8	5634.4	5780.1	5769.5	5271.5	3928.4
50°	6680.7	6638.4	6553.6	6405.3	6524.5	5896.6	5944.3	6196.0	6185.4	5621.2	4169.5
52.5°	6233.1	6177.4	6407.9	6532.4	6492.7	6166.8	6286.0	6651.6	6646.3	6000.0	4400.0
55°	5115.2	5070.2	5690.0	6333.7	6458.2	6357.6	6664.9	7125.8	7154.9	6402.6	4609.2
57.5°	4023.8	3976.1	4585.4	5835.7	6331.1	6532.4	7107.2	7668.8	7705.9	6839.7	4807.9
60°	3207.9	3136.4	3602.6	5051.6	6092.7	6667.5	7533.7	8264.8	8270.1	7239.7	4929.8
62.5°	2180.1	2100.6	2617.2	4058.2	5692.7	6688.7	7862.2	8778.7	8799.9	7539.0	4951.0
65°	1324.5	1258.3	1607.9	2964.2	5102.0	6508.6	7867.5	9157.6	9176.1	7676.8	4823.8
67.5°	768.2	741.7	919.2	1846.3	4121.8	6023.8	7536.4	9099.3	9133.7	7618.5	4535.1
70°	447.7	445.0	511.3	913.9	2908.6	5062.2	6797.3	8609.2	8659.5	7313.9	4092.7
72.5°	328.5	333.8	360.3	490.1	1684.8	3645.0	5756.3	7623.8	7700.6	6717.8	3462.2
75°	259.6	262.2	286.1	333.8	884.8	2060.9	4312.6	6119.2	6180.1	5655.6	2704.6
77.5°	193.4	198.7	217.2	235.8	410.6	945.7	2426.5	3769.5	3668.8	3104.6	1306.0
80°	140.4	153.6	161.6	169.5	217.2	365.6	728.5	1313.9	1303.3	1356.3	617.2
82.5°	90.1	100.7	108.6	113.9	129.8	174.8	217.2	294.0	317.9	527.1	246.4
85°	39.7	45.0	50.3	60.9	55.6	60.9	90.1	58.3	50.3	79.5	45.0
87.5°	0.0	0.0	7.9	13.2	10.6	5.3	15.9	10.6	7.9	7.9	7.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P835968

CATALOG NUMBER: ARCH3-120-730-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1671.5	1671.5	1671.5	1671.5	1671.5	1671.5	1671.5	1671.5	1671.5	1671.5	1671.5
2.5°	1687.4	1658.3	1597.3	1539.1	1504.6	1459.6	1419.9	1382.8	1380.1	1369.5	1351.0
5°	1708.6	1653.0	1539.1	1430.5	1348.3	1260.9	1186.7	1128.5	1107.3	1091.4	1070.2
7.5°	1729.8	1642.4	1472.8	1313.9	1184.1	1062.2	974.8	895.4	871.5	850.3	837.1
10°	1737.7	1623.8	1396.0	1184.1	1014.6	884.8	792.0	733.8	712.6	702.0	694.0
12.5°	1761.6	1613.2	1324.5	1062.2	866.2	747.0	680.8	646.4	638.4	630.5	622.5
15°	1793.4	1613.2	1253.0	943.0	749.7	654.3	614.6	590.7	585.4	582.8	577.5
17.5°	1827.8	1613.2	1184.1	842.4	664.9	593.4	564.2	551.0	548.3	545.7	543.0
20°	1875.5	1615.9	1109.9	755.0	604.0	548.3	524.5	508.6	506.0	503.3	503.3
22.5°	1923.2	1621.2	1038.4	688.7	564.2	513.9	484.8	468.9	463.6	463.6	463.6
25°	1984.1	1637.1	972.2	633.1	529.8	482.1	445.0	431.8	429.1	429.1	426.5
27.5°	2055.6	1655.6	913.9	590.7	495.4	445.0	407.9	394.7	389.4	389.4	386.8
30°	2132.4	1674.2	866.2	558.9	460.9	407.9	373.5	357.6	352.3	355.0	352.3
32.5°	2217.2	1700.7	829.1	537.7	429.1	376.2	344.4	325.8	323.2	323.2	320.5
35°	2360.2	1774.8	823.8	527.1	402.6	352.3	320.5	302.0	299.3	299.3	296.7
37.5°	2513.9	1859.6	847.7	521.9	381.5	331.1	302.0	283.4	280.8	280.8	280.8
40°	2643.7	1923.2	874.2	521.9	368.2	312.6	286.1	270.2	270.2	270.2	270.2
42.5°	2731.1	1928.5	868.9	521.9	357.6	299.3	275.5	259.6	259.6	262.2	259.6
45°	2860.9	1955.0	847.7	513.9	349.7	288.7	264.9	251.7	249.0	251.7	251.7
47.5°	3014.5	2002.6	826.5	482.1	347.0	278.1	257.0	241.1	238.4	241.1	238.4
50°	3160.2	2045.0	815.9	439.7	341.7	267.5	246.4	230.5	227.8	230.5	227.8
52.5°	3282.1	2063.6	797.3	410.6	328.5	257.0	235.8	219.9	214.6	217.2	217.2
55°	3380.1	2058.3	770.9	386.8	304.6	246.4	222.5	209.3	201.3	201.3	198.7
57.5°	3470.2	2060.9	747.0	362.9	278.1	230.5	211.9	196.0	185.4	182.8	180.1
60°	3504.6	2047.7	704.6	331.1	251.7	217.2	198.7	180.1	169.5	166.9	164.2
62.5°	3456.9	2000.0	649.0	275.5	227.8	201.3	185.4	166.9	156.3	153.6	151.0
65°	3321.8	1909.9	564.2	217.2	206.6	182.8	169.5	156.3	143.0	137.7	135.1
67.5°	3091.4	1780.1	458.3	174.8	182.8	166.9	158.9	143.0	127.2	121.9	119.2
70°	2762.9	1607.9	344.4	148.3	161.6	148.3	143.0	127.2	113.9	108.6	106.0
72.5°	2302.0	1329.8	241.1	127.2	140.4	129.8	124.5	113.9	100.7	92.7	92.7
75°	1740.4	953.6	158.9	108.6	116.6	111.3	103.3	95.4	87.4	82.1	79.5
77.5°	749.7	370.9	98.0	82.1	95.4	92.7	82.1	76.8	74.2	68.9	68.9
80°	323.2	151.0	60.9	60.9	68.9	66.2	63.6	58.3	58.3	55.6	53.0
82.5°	119.2	60.9	37.1	45.0	50.3	45.0	45.0	45.0	45.0	42.4	42.4
85°	29.1	18.5	18.5	26.5	29.1	26.5	29.1	26.5	26.5	26.5	23.8
87.5°	7.9	7.9	10.6	10.6	10.6	10.6	10.6	7.9	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)